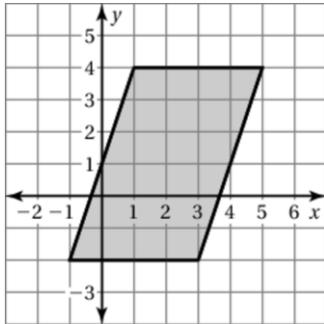
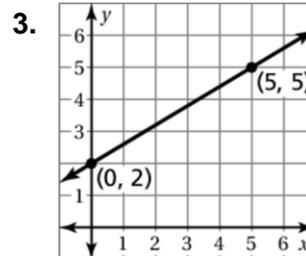
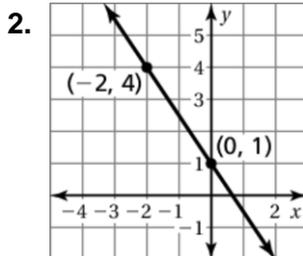


## 4.6 Practice A

1. Write an equation that represents each side of the figure.



Write an equation of the line in slope-intercept form.



4. A plant is 3 inches tall when you purchase it and grows 2 inches per month. Write an equation that represents the height  $y$  (in inches) of a plant that you purchased  $x$  months ago.

Write an equation of the line that passes through the points.

5.  $(0, 0), (4, -2)$

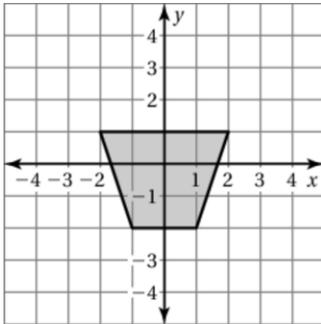
6.  $(-2, 6), (0, 3)$

7. A bucket is empty. You are filling the bucket with water at a rate of 3 inches per second.
- Plot the points  $(0, 0)$  and  $(5, 15)$ .
  - What do the points in part (a) represent?
  - Draw a line through the points.
  - What does the line represent?
  - Write an equation of the line.

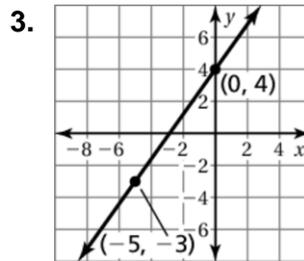
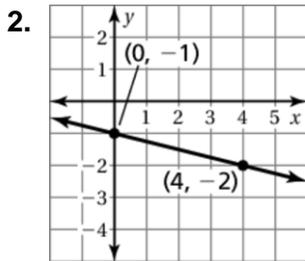
# 4.6

## Practice B

1. Write an equation that represents each side of the figure.



Write an equation of the line in slope-intercept form.



4. Your hair is 6 inches long and grows at a rate of 144 millimeters per year.
- Convert 144 millimeters per year to inches per year. Round your answer to the nearest tenth.
  - Write an equation that represents the length  $y$  (in inches) of your hair after  $x$  years.
  - How long is your hair after 4 years?

Write an equation of the line that passes through the points.

5.  $(-4, -1), (0, 5)$                       6.  $(0, -3), (1, -5)$
7. Yesterday, you typed 8 pages in 48 minutes. Today, you typed 20 pages in 2 hours.
- Plot the two points  $(x, y)$ , where  $x$  is the time (in minutes) and  $y$  is the number of pages.
  - What is the rate of typing?
  - Write an equation that represents the number of pages in terms of the number of minutes.